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1 Special section: Special issue on AI and Database research
Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86
Full text available: 📄 pdf(3.84 MB)   Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

2 Articles on microarray data mining: Microarray data mining: facing the challenges
Gregory Piatetsky-Shapiro, Pablo Tamayo
December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2
Full text available: 📄 pdf(224.37 KB)   Additional Information: full citation, references

3 Automated knowledge acquisition for instructional text generation
Cécile Paris, Keith Vander Linden, Shijian Lu
October 2002 **Proceedings of the 20th annual international conference on Computer documentation**
Full text available: 📄 pdf(507.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

Language generation systems have often been advocated for use in the generation of user documentation, but in practice, it is hard to use them because of the amount of knowledge they require as input. Without a readily available source of input, the knowledge acquisition bottleneck will prevent generation technology from ever being used. Unfortunately, knowledge acquisition for any domain-varying language generation application is difficult because there is seldom any single knowledge source or ...

Keywords: instructional text, knowledge acquisition, language generation

4 Toward a contingency view of infrastructure and knowledge: an exploratory study
Claudio U. Ciborra, Ole Hanseth
December 1998 **Proceedings of the international conference on Information systems**
Full text available: 📄 pdf(43.11 KB)   Additional Information: full citation, references, index terms

Keywords: IS use, economic theory, globalization of IS, implementation approaches, information infrastructures

5 On the road to nirvana

John Gehl

July 2001 **Ubiquity**, Volume 2 Issue 21

Full text available: html(21.00 KB)   Additional Information: full citation, index terms

6 Strategic value of the R & D investment: A simulation model approach

Edmund B. Pyle, Wilfred J. Westlake, Bryce Douglas, A. Douglas Bender

January 1974 **Proceedings of the 7th conference on Winter simulation - Volume 1**

Full text available: pdf(555.90 KB)   Additional Information: full citation, abstract, references, index terms

A Monte-Carlo Simulation Model was developed in an attempt to relate the size of the R&D budget to the future need for new pharmaceutical products in order to sustain the desired level of sales growth. This paper describes the simulation model in detail and presents an example of how it is used to evaluate and compare various R&D spending levels and strategies.

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1 Information sharing and access: The multiple views of inter-organizational authoring   ▰

David W. McDonald, Chunhua Weng, John H. Gennari
November 2004 **Proceedings of the 2004 ACM conference on Computer supported
cooperative work**

Full text available: 📄 pdf(935.59 KB)   Additional Information: full citation, abstract, references, index terms

Collaborative authoring is a common workplace task. Yet, despite improvements in word
processors, communication software, and file sharing, many problems continue to plague
co-authors. We conducted a qualitative study in a setting where participants are loosely
connected, physically separated, and work together over a period of 4-9 months to author a
complex technical document-a clinical trial protocol. Our study differs from most prior work
in that the collaboration is longer-lived, and that ...

Keywords: clinical trials, collaborative authoring, field study, medical informatics

2 Industrial/government track: Clinical and financial outcomes analysis with existing
hospital patient records   ▰

R. Bharat Rao, Sathyakama Sandilya, Radu Stefan Niculescu, Colin Germond, Harsha Rao
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on
Knowledge discovery and data mining**

Full text available: 📄 pdf(188.40 KB)   Additional Information: full citation, abstract, references, index terms

Existing patient records are a valuable resource for automated outcomes analysis and
knowledge discovery. However, key clinical data in these records is typically recorded in
unstructured form as free text and images, and most structured clinical information is poorly
organized. Time-consuming interpretation and analysis is required to convert these records
into structured clinical data. Thus, only a tiny fraction of this resource is utilized. We present
REMIND, a Bayesian Framework for Reliable ...

Keywords: Bayes Nets, HMMs, data mining, temporal reasoning

3 Special section: Special issue on AI and Database research   ▰

Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86

Full text available: 📄 pdf(3.84 MB)   Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

4 Computing at the Information Sciences Division, Rockland State Hospital

E. Laska, G. W. Logemann

January 1971 **Proceedings of the 1971 26th annual conference**

Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

The activities of the Information Sciences Division include research in bio-mathematics, statistics and computer science, development of information systems, and service to the Research Center in such areas as programming, statistical analyses of data, business and administrative applications of computer technology and on-line data collection. The major project of the Information Sciences Division is the Multi-State Information System for Psychiatric Patients. This record keeping ...

Keywords: Biological applications, Information retrieval, Information system, Medical system, Mental health applications, Real time system, Supervisory system

5 Long papers: visualization and presentation: The centrality of pivotal points in the evolution of scientific networks

Chaomei Chen

January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces**

Full text available: pdf(732.87 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we describe the development of CiteSpace as an integrated environment for identifying and tracking thematic trends in scientific literature. The goal is to simplify the process of finding not only highly cited clusters of scientific articles, but also pivotal points and trails that are likely to characterize fundamental transitions of a knowledge domain as a whole. The trails of an advancing research field are captured through a sequence of snapshots of its intellectual structure ...

Keywords: betweenness centrality, information visualization, intellectual turning points, knowledge domain visualization, research fronts

6 Interactive pedagogical drama

Stacy C. Marsella, W. Lewis Johnson, Catherine LaBore

June 2000 **Proceedings of the fourth international conference on Autonomous agents**

Full text available: pdf(1.08 MB)   Additional Information: full citation, references, citings, index terms

Keywords: and interaction of humans and agents, believability, collaboration, communication, lifelike qualities, modeling the behavior of other agents, models of emotion, motivation, or personality, synthetic agents

7 Ph.D. theses

Roy Rada

September 1985 **ACM SIGBIO Newsletter**, Volume 7 Issue 3

Full text available: pdf(647.25 KB)   Additional Information: full citation

8 Searching and organizing: Strategy hubs: next-generation domain portals with search procedures
Suresh K. Bhavnani, Bichakjian K. Christopher, Timothy M. Johnson, Roderick J. Little, Frederick A. Peck, Jennifer L. Schwartz, Victor J. Strecher
April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(2.91 MB)   Additional Information: full citation, abstract, references, citings, index terms

Current search tools on the Web, such as general-purpose search engines (e.g. Google) and domain-specific portals (e.g. MEDLINEplus), do not provide search procedures that guide users to form appropriately ordered sub-goals. The lack of such procedural knowledge often leads users searching in unfamiliar domains to retrieve incomplete information. In critical domains such as in healthcare, such ineffective searches can have dangerous consequences. To address this situation, we developed a new typ ...

Keywords: healthcare, strategy hub, web searching

9 The disease progression explorer: risk assessment support in chronic, multifactorial diseases
Pamela K. Fink, L. Tandy Herren
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Full text available: pdf(678.67 KB)   Additional Information: full citation, references, index terms

Keywords: risk assessment

10 Proceedings of a conference on Decision Support Systems, Santa Clara, California, January 24-26, 1977: A DSS for management of patients with a chronic illness
C. Frank Starmer, Robert A. Rosati
January 1977 **ACM SIGMIS Database**, Volume 8 Issue 3

Full text available: pdf(653.93 KB)   Additional Information: full citation, abstract, references

There is uncertainty in the management of an individual with a chronic illness. The uncertainty results from lack of information about groups of similar patients. A feedback model for patient care is presented and its implementation discussed. The model requires characterization of patients at the time of entry into the health-care system, cataloging the methods of management used and assessing the response to treatments by following the patient over long periods of time.With a computer-based da ...

11 Episodic skeletal-plan refinement based on temporal data
Samson W. Tu, Michael G. Kahn, Mark A. Musen, L. M. Fagan, Jay C. Ferguson
December 1989 **Communications of the ACM**, Volume 32 Issue 12

Full text available: pdf(4.07 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

ONCOCIN is a medical expert system that extends the skeletal-planning technique to an applciation area where the history of past events and the duration of actions are important. The system's knowledge base is designed to reflect a hierarchical model of the domain, and its control and inference mechanisms encourage a mixed-initiative style of interaction between the computer and the user.

12 Knowledge and representation: Leveraging a common representation for personalized search and summarization in a medical digital library
Kathleen R. McKeown, Noemie Elhadad, Vasileios Hatzivassiloglou
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(116.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

Despite the large amount of online medical literature, it can be difficult for clinicians to find relevant information at the point of patient care. In this paper, we present techniques to personalize the results of search, making use of the online patient record as a sophisticated, pre-existing user model. Our work in *PERSIVAL*, a medical digital library, includes methods for re-ranking the results of search to prioritize those that better match the patient record. It also generates summa ...

13 Modeling disease processes for drug development: bridging the gap between quantitative and heuristic models
Pamela K. Fink, L. Tandy Herren
November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available: pdf(850.28 KB)   Additional Information: full citation, references

14 An example of using computer simulation to predict pharmaceutical costs and outcomes
Michael T. Halpern, Ruth E. Brown, Dennis A. Revicki, Alkis G. Togias
December 1994 **Proceedings of the 26th conference on Winter simulation**

Full text available: pdf(526.60 KB)   Additional Information: full citation, references, index terms

15 Simulation used in conjunction with randomised control trials to evaluate the costs and benefits of a new drug
Ruth Davies, Paul Roderick
December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(68.55 KB)   Additional Information: full citation, references, index terms

16 The adaptive web: Personalized and adaptive systems for medical consumer applications
Diana Bental, Alison Cawsey
May 2002 **Communications of the ACM**, Volume 45 Issue 5

Full text available: pdf(126.33 KB)
html(8.68 KB)   Additional Information: full citation, references, index terms

17 General applications: Healthcare I: a discrete-event simulation application for clinics serving the poor
Christos Alexopoulos, David Goldsman, John Fontanesi, Mark Sawyer, Michelle De Guire, David Kopald, Kathy Holcomb
December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(162.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

Healthcare management operates in an environment of aggressive pricing, tough competition, and rapidly changing guidelines. Computer simulation models are increasingly used by large healthcare institutions to meet these challenges. However, small healthcare facilities serving the poor are equally in need of meeting these challenges but lack the finances and personnel required to develop and implement their own simulation solutions. An academic medical center, healthcare facilities that serve the ...

18 The OMG life sciences research domain task force

David Benton, Karl Konnerth, Scott Markel
December 2000 **ACM SIGBIO Newsletter**, Volume 20 Issue 3

Full text available: pdf(823.07 KB)   Additional Information: full citation, abstract, index terms

The life sciences research community has long recognized the need for component-based software. Just as standard hardware interfaces make it possible to purchase the components of a hardware system from different vendors, component-based software allows system builders to choose components from a variety of vendors and assemble them to meet the unique needs of each researcher or project. Component-based software construction depends on the availability of components that perform the required fun ...

Keywords: bioinformatics, cheminformatics, component-based software development, computational biology, computational chemistry, distributed object computing, drug discovery, genomics, research and development, software interoperability, structural biology

19 Research challenges in wireless networks of biomedical sensors

Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available: pdf(612.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

Implanted biomedical devices have the potential to revolutionize medicine. *Smart sensors*, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp ...

20 Knowledge management II: Data at work: supporting sharing in science and engineering

Jeremy P. Birnholtz, Matthew J. Bietz
November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available: pdf(256.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

Data are a fundamental component of science and engineering work, and the ability to share data is critical to the validation and progress of science. Data sharing and reuse in some fields, however, has proven to be a difficult problem. This paper argues that the development of effective CSCW systems to support data sharing in work groups requires a better understanding of the use of data in practice. Drawing on our work with three scientific disciplines, we show that data play two general roles ...

Keywords: collaboratories, communities of practice, data sharing, metadata

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Relevance scale ☐▢▣■■

21 Multimedia courseware on HIV/AIDS   ☐
Nor Hazilawati Awang
April 2000 **ACM SIGBIO Newsletter**, Volume 20 Issue 1

Full text available: pdf(376.85 KB)   Additional Information: full citation, abstract, index terms

> This project aimed at developing a multimedia courseware on HIV/AIDS for two levels: 1) Beginner level, targeting patients and their families, as an awareness tool for general knowledge, and 2) Expert level, targeting medical students and researchers. A CD has been developed. Some of the topics discussed are included in this article.

22 An algebra for composing access control policies   ☐
Piero Bonatti, Sabrina De Capitani di Vimercati, Pierangela Samarati
February 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 1

Full text available: pdf(384.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Despite considerable advancements in the area of access control and authorization languages, current approaches to enforcing access control are all based on monolithic and complete specifications. This assumption is too restrictive when access control restrictions to be enforced come from the combination of different policy specifications, each possibly under the control of independent authorities, and where the specifics of some component policies may not even be known apriori. Turning individu ...

> **Keywords:** Access control, algebra, logic programs, policy composition

23 On data and their analysis   ☐
B. I. Blum
July 1989 **ACM SIGSOFT Software Engineering Notes**, Volume 14 Issue 5

Full text available: pdf(861.91 KB)   Additional Information: full citation, index terms

24 Recollections on the processing of biomedical signals   ☐
J. R. Cox

December 1987 **Proceedings of ACM conference on History of medical informatics**

Full text available: pdf(988.59 KB)   Additional Information: full citation, abstract, references, index terms

The processing of biomedical signals took many steps forward in the two decades that followed the introduction of digital computers to the field in the late 50s. Along with my colleagues at the Central Institute for the Deaf and at the Biomedical Computer Laboratory, I was privileged to participate in this exciting early period of biomedical computing. Some of my experiences with projects, both successful and unsuccessful, in evoked response audiometry, neurophysiology, fetal electrocardiog ...

25 Strategic directions in artificial intelligence

Jon Doyle, Thomas Dean
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available: pdf(243.02 KB)   Additional Information: full citation, references, index terms

26 Workshops: HCI and homecare: connecting families and clinicians

Lena Mamykina, Jakob E. Bardram, Ilkka Korhonen, Elizabeth Mynatt, Wanda Pratt
April 2004 **CHI '04 extended abstracts on Human factors in computing systems**

Full text available: pdf(69.91 KB)   Additional Information: full citation, abstract, references

The proposed workshop aims to form a community of individuals interested in using computing technology to promote healthcare and support wellness in the context of homecare. We strive to connect and engage researchers from several distinct fields of scientific inquiry and practice: people with clinical experience, developers of enabling technologies and HCI researchers interested in home healthcare and issues such as aging in place. The focus of this one-day workshop is on establishing common gr ...

Keywords: aging, health care, home, medicine, pervasive computing

27 Research papers: human-computer interaction, visualization and collaboration: Collaboratories to support distributed science: the example of international HIV/AIDS research

Gary M. Olson, Stephanie Teasley, Matthew J. Bietz, Derrick L. Cogburn
September 2002 **Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology**

Full text available: pdf(169.84 KB)   Additional Information: full citation, abstract, references, citings, index terms

The use of collaborative technologies to support geographically distributed scientific research (or collaboratories) is gaining wide acceptance in many parts of the developed world. Such collaboratories hold great promise for international cooperation in critical areas of scientific research, such as HIV/AIDS. We have extensive experience with the design, development, deployment and evaluation of such collaboratories in a number of areas of science and engineering. We have identified a number of ...

Keywords: HIV/AIDS, collaboration readiness, collaboratories, computer supported cooperative work, international collaboration

28 SIGSAM BULLETIN: Computer algebra in the life sciences

Michael P. Barnett
December 2002 **ACM SIGSAM Bulletin**, Volume 36 Issue 4

Full text available: pdf(240.15 KB)   Additional Information: full citation, abstract, references

This note (1) provides references to recent work that applies computer algebra (CA) to the life sciences, (2) cites literature that explains the biological background of each application, (3) states the mathematical methods that are used, (4) mentions the benefits of CA, and (5) suggests some topics for future work.

29 Digital libraries: Extending the role of the digital library: computer support for creating articles
Leslie Carr, Timothy Miles-Board, Gary Wills, Guillermo Power, Christopher Bailey, Wendy Hall, Simon Grange
August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**

Full text available: pdf(477.42 KB)   Additional Information: full citation, abstract, references, index terms

A digital library, together with its users and its contents, does not exist in isolated splendour; nor in hypertext terms is it merely the intertextual relationships between its texts. There is a cycle of activities which provides the context for the library's existence, and which the library supports through its various roles of information access, discovery, storage, dissemination and preservation. This paper describes the role of digital library systems in the undertaking of science, and in p ...

Keywords: EPrints, e-science, grid, orthopaedics, virtual universities

30 On site: Is telemedicine the panacea for Sub-Saharan Africa's medical nightmare?
Victor W. A. Mbarika
July 2004 **Communications of the ACM**, Volume 47 Issue 7

Full text available: pdf(95.45 KB)   Additional Information: full citation, abstract, references, index terms
html(16.78 KB)

"Ever since my eye swelled up, I've gone to church to pray for a cure...I always knew He would send a way to make me better---I just didn't know it was going to be from London," says Anna Mobutsu, a 23-year-old farm laborer, who cannot imagine journeying farther than a bus ride from her home in the small African town of Nelspruit. An illiterate single parent with a 7-year-old and an elderly mother to support on about $56 a month, Anna does not even own a TV to introduce her to a world bey ...

31 An empirical study of how people establish interaction: implications for CSCW session management models
Steinar Kristoffersen, Fredrik Ljungberg
May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**

Full text available: pdf(939.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we report the results of an empirical study of how people, as part of their daily work activities, go about to establish collaboration. We examine the empirical findings and relate them to existing research on CSCW session management models, i.e., the mechanisms in CSCW systems that define the way in which people can join together in collaboration. Existing models leave a lot to be desired, in particular because they tend to assume that indexical elements of interaction ...

Keywords: design implications, ethnography, field study, session management

32 The study of models of intelligent interfaces
Angel R. Puerta

February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces**

Full text available: pdf(744.02 KB)   Additional Information: full citation, references, citings, index terms

Keywords: intelligent-interface modeling, machine learning, self-adaptation, user-interface management

33 High-throughput DNA chips for efficient screening and analysis

Deval A. Lashkari, James Gilmore

August 1999 **ACM SIGBIO Newsletter**, Volume 19 Issue 2

Full text available: pdf(1.12 MB)   Additional Information: full citation, references

34 Surface rendering versus volume rendering in medical imaging: techniques and applications (panel)

Ramin Shahidi

October 1996 **Proceedings of the 7th conference on Visualization '96**

Full text available: pdf(249.46 KB)

Publisher Site   Additional Information: full citation, citings, index terms

35 Advanced tutorials: Selecting the best system: selecting the best system: theory and methods

Seong-Hee Kim, Barry L. Nelson

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available: pdf(225.67 KB)   Additional Information: full citation, abstract, references

This paper provides an advanced tutorial on the construction of ranking-and-selection procedures for selecting the best simulated system. We emphasize procedures that provide a guaranteed probability of correct selection, and the key theoretical results that are used to derive them.

36 Design expo: Advanced technology for streamlining the creation of ePortfolio resources and dynamically-indexing digital library assets: a case study from the digital chemistry project

Alex Cuthbert, Mark Kubinec, David O. Tanis, Fan Ieong, Lois Wei, David Schlossberg

April 2005 **CHI '05 extended abstracts on Human factors in computing systems**

Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, references, index terms

The goal of the Digital Chemistry Project at UC Berkeley is to create a model for how technology can be used to (a) introduce interactivity into large lecture classes, (b) offer customized, web-based learning materials to students outside of the classroom, and (c) provide immediate feedback on students' understanding of targeted instructional concepts. Two products, PRISM and LOTIS, and their interrelated design processes are described in this paper. PRISM (Presentation and Interaction with Stre ...

Keywords: concept design, content strategy & creation, information architecture,

interaction design, multidisciplinary design/interdisciplinary design, user experience design/experience design, user-centered design/human-centered design

37 Articles on microarray data mining: Microarray data mining: facing the challenges

Gregory Piatetsky-Shapiro, Pablo Tamayo

December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Full text available: pdf(224.37 KB)   Additional Information: full citation, references

38 Educational models and open source: resisting the proprietary university

Brenton D. Faber

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available: pdf(243.34 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents an educational model derived from open source methods for computer programming. The article places this search for an alternative model within a framework of proprietary educational practices that are driven by a need for efficiency and rationalization. As an alternative model, the paper suggests that an open source derived educational process would emphasize collaborative problem based learning, working through drafts, risk taking, mentoring, user testing, releasing early an ...

Keywords: collaborative design, educational models, open source software

39 Clinical trial remote data capture client/server solution

Russel L. Traher

January 2000 **Addendum to the 2000 proceedings of the conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available: pdf(100.17 KB)   Additional Information: full citation, abstract, index terms

This presentation illustrates a software and hardware solutions that provides a speedy but reliable and secure delivery of patient clinical trial data to a research data center. A wireless data entry terminal captures patient data and performs data cleaning during data entry. The data is later uploaded to a remote database via a wireless service gateway that is connected to the Internet over a high-speed broadband connection. This data is available immediately after being uploaded to the clin ...

40 A knowledge-based patient data acquisition system for primary care medicine

James R. Warren, Debra E. Warren, Richard W. Freedman

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available: pdf(715.70 KB)   Additional Information: full citation, references, index terms

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Relevance scale ☐▢▬▬■

41 Communities and Organizations: HutchWorld: clinical study of computer-mediated social support for cancer patients and their caregivers   ☐
Shelly Farnham, Lili Cheng, Linda Stone, Melora Zaner-Godsey, Christopher Hibbeln, Karen Syrjala, Ann Marie Clark, Janet Abrams
April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

Full text available: 📄 pdf(471.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

To address the needs of cancer patients and their caregivers, Microsoft Research and the Fred Hutchinson Cancer Research Center developed HutchWorld, an online community environment, to provide computer-mediated social and informational support. In a controlled clinical study, we deployed HutchWorld to bone marrow transplant patients and their caregivers and assessed the impact of Internet access and HutchWorld on their quality of life. We found that Internet access and the use of HutchWorld hel ...

Keywords: computer-mediated communication, empirical research, health, online communities, social support

42 Research sessions: security and privacy: Secure XML querying with security views   ☐
Wenfei Fan, Chee-Yong Chan, Minos Garofalakis
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: 📄 pdf(229.47 KB)   Additional Information: full citation, abstract, references

The prevalent use of XML highlights the need for a generic, flexible access-control mechanism for XML documents that supports efficient and secure query access, without revealing sensitive information unauthorized users. This paper introduces a novel paradigm for specifying XML security constraints and investigates the enforcement of such constraints during XML query evaluation. Our approach is based on the novel concept of *security views*, which provide for each user group (a) an XML view ...

43 The FINITE STRING newsletter: Abstracts of current literature   ☐
Computational Linguistics Staff
January 1986 **Computational Linguistics**, Volume 12 Issue 1

Full text available:

pdf(2.24 MB)   Additional Information: <u>full citation</u>
<u>Publisher Site</u>

44 <u>Simulation modeling as an aid to decision-making in healthcare management: the adjuvant breast cancer (ABC) trial</u>
Lynne P. Baldwin, Tillal A. Eldabi, Ray J. Paul
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**
Full text available: <u>pdf(121.13 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

45 <u>Scalable algorithms for adaptive statistical designs</u>
Robert Oehmke, Janis Hardwick, Quentin F. Stout
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: <u>pdf(111.55 KB)</u>
    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>
<u>Publisher Site</u>

We present a scalable, high-performance solution to multidimensional recurrences that arise in adaptive statistical designs. Adaptive designs are an important class of learning algorithms for a stochastic environment, and we focus on the problem of optimally assigning patients to treatments in clinical trials. While adaptive designs have significant ethical and cost advantages, they are rarely utilized because of the complexity of optimizing and analyzing them. Computational challenges incl ...

Keywords: dynamic programming, computational learning theory, bandit models, message-passing, dynamic domain decomposition, memory-intensive computing, load balancing, sequential analysis, performance analysis, experimental algorithms

46 <u>Computer applications in health care: SOM: feature extraction from patient discharge summaries</u>
D. J. Tufts-Conrad, A. N. Zincir-Heywood, D. Zitner
March 2003 **Proceedings of the 2003 ACM symposium on Applied computing**
Full text available: <u>pdf(678.99 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In each Canadian province, hospitals collect information, at discharge, on the hospital stay of each patient. The information is collected in the form of a patient discharge abstract (PDA) and sent to the Canadian Institute for Health Information. The Patient Discharge Abstract uses the ICD-10-CA code standard to outline the assigned diagnoses for the patient's condition and the procedures that were performed. One compulsory piece of information in the Patient Discharge Abstract is the identific ...

Keywords: computer applications for medical informatics, health care information, neural networks for medical informatics

47 <u>Ethics and the computerization of pharmacy</u>
Robert L. McCarthy, Judith A. Perrolle
August 1990 **ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life**, Volume 20 Issue 3
Full text available: <u>pdf(759.40 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

48 Stigma and the sensorial experience of objects: Positive user experience and medical adherence

Daniel M. Gloyd

June 2003 **Proceedings of the 2003 international conference on Designing pleasurable products and interfaces**

Full text available: pdf(304.57 KB)   Additional Information: full citation, abstract, references, index terms

Nonadherence with medical regimens is a life-threatening problem. This paper discusses how designing positive user experiences can lead to increased patient adherence to medical regimens.The importance of positive affect in relationship to medical adherence is well documented within the discipline of Health Psychology. Therefore, when designers are called on to positively shape a user's experience with technology-based medical devices, principles from this body of knowledge can provide a framewo ...

Keywords: affect, experience design, industrial design, information design, interaction design, medical adherence, medical regimens

49 Interactive graphics for plastic surgery: a task-level analysis and implementation

Steven Pieper, Joseph Rosen, David Zeltzer

June 1992 **Proceedings of the 1992 symposium on Interactive 3D graphics**

Full text available: pdf(1.25 MB)   Additional Information: full citation, references, citings, index terms

50 Novelty and topic change: Domain-independent text segmentation using anisotropic diffusion and dynamic programming

Xiang Ji, Hongyuan Zha

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Full text available: pdf(171.61 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a novel domain-independent text segmentation method, which identifies the boundaries of topic changes in long text documents and/or text streams. The method consists of three components: As a preprocessing step, we eliminate the *document-dependent* stop words as well as the generic stop words before the sentence similarity is computed. This step assists in the discrimination of the sentence semantic information. Then the cohesion information of sentences in a document o ...

Keywords: anisotropic diffusion, document-dependent stop words, dynamic programming, text segmentation

51 How real-time technology can improve the quality of life

Brenda K. Wiederhold, Mark D. Wiederhold, Glen Fraser, Scott S. Fisher, Hiroshi Oyama, Noriyuki Katsumata, Meiko Ohsuga, Yoko Tatsuno

May 1999 **ACM SIGGRAPH Computer Graphics**, Volume 33 Issue 2

Full text available: pdf(957.32 KB)   Additional Information: full citation, abstract, index terms

In the February issue, we looked at an application of interactive real-time graphics systems for entertainment. Previous columns have dealt with interactive gaming, simulation and other areas. In this column, we present two articles about ways in which the same kind of real-time technology can be applied with the goal of improving quality of life."How's your health?"There is no doubt that physical and mental health help from a foundation on which

to build a happy, satisfying life. People who suf ...

52 <u>Microcomputers in medical diagnosis</u>
Paul R. Fisher, David J. Kurlander
January 1980 **Proceedings of the ACM 1980 annual conference**

Full text available: pdf(399.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

A program for performing differential diagnosis on a microcomputer has been developed, utilizing a pattern recognition algorithm. The present configuration allows for input of 15 symptoms of 3 values (present, absent, or unknown), and compares the patient's symptom profile with 50 patterns which point to as many as 10 disease designations. The investigator may stipulate either a rigorous or permissive pattern matching, thus obtaining either a selective or exhaustive ranking of possible diag ...

53 <u>Design considerations for a computer-based clinical physiologic research system</u>
Ronald W. Hagen, Lewis J. Thomas, Janet A. Johnson
October 1976 **Proceedings of the annual conference**

Full text available: pdf(535.88 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Experience in the design of computer-based patient monitoring and clinical physiologic research systems is drawn upon to suggest some useful design strategies and architectural configurations for such systems. Emphasis is placed on flexibility as an over-riding consideration for research systems in contrast to the level of specialization appropriate to monitoring systems. The previously undescribed clinical-research system is detailed as necessary to show where differences in both hardware ...

54 <u>Analyzing the temporal association between health disorders and medical treatments</u> <u>using probability models and Monte Carlo simulation</u>
Sheldon H. Jacobson, Douglas J. Morrice
November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available: pdf(609.74 KB)   Additional Information: <u>full citation</u>, <u>references</u>

55 <u>Papers Presented at Williamsburg Workshop: The impact of computers on society: the</u> <u>health sector</u>
Roger H. Shannon
July 1981 **ACM SIGCAS Computers and Society**, Volume 11 Issue 3

Full text available: pdf(880.95 KB)   Additional Information: <u>full citation</u>, <u>references</u>

56 <u>Information sharing and access: Asynchronous collaborative writing through</u> <u>annotations</u>
Chunhua Weng, John H. Gennari
November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available: pdf(260.11 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Annotation is central to iterative reviewing and revising activities in asynchronous collaborative writing. Currently most digital annotation models and systems assume static context information and provide far less functionality than physical annotations. We extend prior annotation research by Marshall and Cadiz and design an activity-oriented annotation model to mimic the rich functionality of physical annotations for an enhanced collaborative writing process. In this model, we define an an ...

Keywords: annotation, asynchronous collaboration, collaborative writing

57 Medical image modeling tools and applications: Virtual colonoscopy   ☐
Arie E. Kaufman, Sarang Lakare, Kevin Kreeger, Ingmar Bitter
February 2005 **Communications of the ACM**, Volume 48 Issue 2

Full text available: pdf(143.98 KB)   Additional Information: full citation, abstract, references, index terms
html(26.42 KB)

A computer-graphics-based alternative to conventional optical colonoscopy, known as virtual colonoscopy (VC) or computed tomography colonography (CTC), is rapidly gaining popularity. During this procedure, which was concurrently developed by our group at Stony Brook University [5] and by other researchers [10], the distended colon is imaged by a helical or multislice CT scanner. The acquired abdominal CT scan commonly consists of 350--750 axial images of 512x512 sub-millimeter resolution, provid ...

58 Volume rendering based interactive navigation within the human colon (case study)   ☐
Ming Wan, Qingyu Tang, Arie Kaufman, Zhengrong Liang, Mark Wax
October 1999 **Proceedings of the conference on Visualization '99: celebrating ten years**

Full text available: pdf(504.26 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present an interactive navigation system for virtual colonoscopy, which is based solely on high performance volume rendering. Previous colonic navigation systems have employed either a surface rendering or a Z-buffer-assisted volume rendering method that depends on the surface rendering results. Our method is a fast direct volume rendering technique that exploits distance information stored in the potential field of the camera control model, and is parallelized on a multiprocessor. Exper ...

59 A modular approach to composing access control policies   ☐
Piero Bonatti, Sabrina de Capitani di Vimercati, Pierangela Samarati
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

Full text available: pdf(658.81 KB)   Additional Information: full citation, references, citings, index terms

Keywords: access control, algebra, logic programs, policy composition

60 Design of documentation for handheld ergonomics: presenting clinical evidence at the   ☐
point of care
Michelle Graham, Mark Chignell, Harumi Takeshita
October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available: pdf(359.93 KB)   Additional Information: full citation, abstract, references, citings, index terms

Medical doctors require high quality clinical evidence at the point of care in order to support their decision-making. Presentation of clinical evidence on handheld devices, and in a timely fashion, requires an integrated approach to documentation and ergonomic design. This paper reports on results from The Bringing Evidence to the Point of Care Project at the University of Toronto, concerning the display of quantitative data as part of clinical evidence. After introducing the problem and some o ...

Keywords: display format, graphs, handheld computers, interface design, lists, medical

documentation, tables

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61 **Scientific information retrieval system: A new approach to research data management**   ☐
Gary D. Anderson, Eli Cohen, Wally Gazdzik, Barry Robinson
November 1977 **Proceedings of the 5th annual ACM SIGUCCS conference on User services**
Full text available: 📄 pdf(284.50 KB)   Additional Information: full citation, abstract, references, index terms

This manuscript is addressed particularly to the researcher and data analyst faced with the
need to manage and analyze data sets in a form of complex file. This complex file arises
when data is collected from multiple sources over a period of time. In the health sciences,
studies of this nature are quite common, examples being large multi-centered clinical trials,
patient record studies, health surveys, patient monitoring studies, etc.. Such studies
generally contain variable amounts of dat ...

62 **Pen-based, mobile decision support in healthcare**   ☐
Richard N. Shiffman, Bryant T. Karras, Sujai Nath, Laura Engles-Horton, Geoffrey J. Corb
August 1999 **ACM SIGBIO Newsletter**, Volume 19 Issue 2
Full text available: 📄 pdf(255.79 KB)   Additional Information: full citation, abstract, references

The use of computers has become well established throughout the business enterprise; but
computer usage within the health care sector has lagged, particularly for automation of
interactions between individual clinicians and their patients. A number of factors have
contributed to this including difficulties in representing medical knowledge in computer-
processible formats, the limited application of standards for data recording and
transmission, and problems in human-computer interaction.A major ...

63 **Empirical bayes screening for multi-item associations**   ☐
William DuMouchel, Daryl Pregibon
August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: 📄 pdf(931.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper considers the framework of the so-called "market basket problem", in which a
database of transactions is mined for the occurrence of unusually frequent item sets. In our
case, "unusually frequent" involves estimates of the frequency of each item set divided by a
baseline frequency computed as if items occurred independently. The focus is on obtaining
reliable estimates of this measure of interestingness for all item sets, even item sets with
relatively low frequencies. For example, in ...

Keywords: Association rules, Data Mining, Knowledge Discovery, Statistical Models, empirical Bayes methods, gamma-Poisson model, market basket problem, shrinkage estimation

64 My flexible friend: what is its role in biomedicine?
P. J. G. Lisboa
April 2000 **ACM SIGBIO Newsletter**, Volume 20 Issue 1
Full text available: pdf(162.87 KB)   Additional Information: full citation, index terms

65 Research track papers: A Bayesian network framework for reject inference
Andrew Smith, Charles Elkan
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(201.00 KB)   Additional Information: full citation, abstract, references, index terms

Most learning methods assume that the training set is drawn randomly from the population to which the learned model is to be applied. However in many applications this assumption is invalid. For example, lending institutions create models of who is likely to repay a loan from training sets consisting of people in their records to whom loans were given in the past; however, the institution approved loan applications previously based on who was thought unlikely to default. Learning from only appro ...

Keywords: Bayesian networks, Heckman estimator, expectation-maximization, propensity scores, reject inference, sample selection bias

66 Data visualization for strategic decision making
Angela Shen-Hsieh, Mark Schindl
April 2002 **Case studies of the CHI2002|AIGA Experience Design FORUM**
Full text available: pdf(4.02 MB)   Additional Information: full citation, abstract, references, index terms

Organizations large and small continuously strive to improve strategic decision-making. *Strategic* decision-making (distinguished from *operational* decision making) involves making substantial investments of resources over long periods of time before results are evident. These decisions are made using quantitative *and* qualitative information - experience, intuition, and subjective assessment. These are *people* decisions, not decisions made by machines.So, how can data in ...

Keywords: data visualization, decision science, decision support, enterprise applications, enterprise information systems (EIS), enterprise resource planning (ERP), executive dashboards, information architecture, information visualization, strategic decision making

67 Volume rendering of abdominal aortic aneurysms
Roger C. Tam, Christopher G. Healey, Borys Flak, Peter Cahoon
October 1997 **Proceedings of the 8th conference on Visualization '97**

Full text available: pdf(1.26 MB)   Additional Information: full citation, references, citings, index terms
Publisher Site

68

Squibs and discussions: Pipelines and size constraints
Ehud Reiter
June 2000 **Computational Linguistics**, Volume 26 Issue 2
Full text available: pdf(663.04 KB)
Publisher Site
Additional Information: full citation, abstract, references

Some types of documents need to meet size constraints, such as fitting into a limited number of pages. This can be a difficult constraint to enforce in a pipelined natural language generation (NLG) system, because size is mostly determined by content decisions, which usually are made at the beginning of the pipeline, but size cannot be accurately measured until the document has been completely processed by the NLG system. I present experimental data on the performance of single-solution pipeline ...

69 Learning multiple evolutionary pathways from cross-sectional data
Niko Beerenwinkel, Jörg Rahnenführer, Martin Däumer, Daniel Hoffmann, Rolf Kaiser, Joachim Selbig, Thomas Lengauer
March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**
Full text available: pdf(193.60 KB)   Additional Information: full citation, abstract, references, index terms

We introduce a mixture model of trees to describe evolutionary processes that are characterized by the accumulation of permanent genetic changes. The basic building block of the model is a directed weighted tree that generates a probability distribution on the set of all patterns of genetic events. We present an EM-like algorithm for learning a mixture model of K trees and show how to determine K with a maximum likelihood approach. As a case study we consider the accumulation of mu ...

Keywords: EM algorithm, HIV drug resistance, bayesian networks, mixture models, mutational pathways, tree models

70 The use of Monte Carlo sampling to study the performance of a sequential procedure for selecting the best bernoulli population
Robert E. Bechhofer
December 1983 **Proceedings of the 15th conference on Winter Simulation - Volume 2**
Full text available: pdf(178.29 KB)   Additional Information: full citation, abstract, references, index terms

A closed adaptive sequential procedure for selecting the Bernoulli population with the largest "success" probability is described. Its use in various real-life settings including clinical trials is pointed out. Various optimal properties of the procedure had been proved analytically. However, it was desired in addition to assess quantitatively the "goodness" of the procedure for various performance characteristics of interest in applications. Exact calculations of th ...

71 On the road to nirvana
John Gehl
July 2001 **Ubiquity**, Volume 2 Issue 21
Full text available: html(21.00 KB)
Additional Information: full citation, index terms

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